

|    | A   | B | C | D   | E     | F | G   | H | I | J | K      | L |
|----|---|---|---|---|-------|---|---|---|---|---|--------|---|
| 1  | <b>User Selected Options</b>  |   |   | <b>Nonparametric Background Statistics for Data Sets with Non-Detects</b> |       |   |   |   |   |   |        |   |
| 2  |   |   |   |   |       |   |   |   |   |   |        |   |
| 3  |   |   |   | Date/Time of Computation  |       |   | 8/2/2013 11:56:06 AM                        |   |   |   |        |   |
| 4  |   |   |   | From File   |       |   | WorkSheet.xls                               |   |   |   |        |   |
| 5  |   |   |   | Full Precision  |       |   | OFF   |   |   |   |        |   |
| 6  | Confidence Coefficient  |   |   | 95%   |       |   |   |   |   |   |        |   |
| 7  | Coverage  |   |   | 95%   |       |   |   |   |   |   |        |   |
| 8  | rent or Future K Observations   |   |   | 1   |       |   |   |   |   |   |        |   |
| 9  |   |   |   |   |       |   |   |   |   |   |        |   |
| 10 | <b>Aroclor</b>  |   |   |   |       |   |   |   |   |   |        |   |
| 11 |   |   |   |   |       |   |   |   |   |   |        |   |
| 12 | <b>General Statistics</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 13 | Total Number of Observations  |   |   |   | 63    |   | Number of Distinct Observations             |   |   |   | 50     |   |
| 14 | Number of Detects   |   |   |   | 19    |   | Number of Non-Detects                       |   |   |   | 44     |   |
| 15 | Number of Distinct Detects  |   |   |   | 18    |   | Number of Distinct Non-Detects              |   |   |   | 32     |   |
| 16 | Minimum Detect  |   |   |   | 4.95  |   | Minimum Non-Detect                          |   |   |   | 1.3    |   |
| 17 | Maximum Detect  |   |   |   | 20.45 |   | Maximum Non-Detect                          |   |   |   | 18     |   |
| 18 | Variance Detected   |   |   |   | 17.2  |   | Percent Non-Detects                         |   |   |   | 69.84% |   |
| 19 | Mean Detected   |   |   |   | 9.097 |   | SD Detected                                 |   |   |   | 4.147  |   |
| 20 | Mean of Detected Logged Data  |   |   |   | 2.127 |   | SD of Detected Logged Data                  |   |   |   | 0.395  |   |
| 21 |   |   |   |   |       |   |   |   |   |   |        |   |
| 22 | <b>Critical Values for Background Threshold Values (BTVs)</b>   |   |   |   |       |   |   |   |   |   |        |   |
| 23 | Tolerance Factor K (For UTL)  |   |   |   | 2.007 |   | d2max (for USL)                             |   |   |   | 3.045  |   |
| 24 |   |   |   |   |       |   |   |   |   |   |        |   |
| 25 | <b>Nonparametric Distribution Free Background Statistics</b>  |   |   |   |       |   |   |   |   |   |        |   |
| 26 | <b>Data appear to follow a Discernible Distribution at 5% Significance Level</b>                        |   |   |   |       |   |   |   |   |   |        |   |
| 27 |   |   |   |   |       |   |   |   |   |   |        |   |
| 28 | <b>Kaplan Meier (KM) Background Statistics Assuming Normal Distribution</b>                             |   |   |   |       |   |   |   |   |   |        |   |
| 29 | Mean  |   |   |   | 4.248 |   | SD  |   |   |   | 4.257  |   |
| 30 | 95% UTL95% Coverage   |   |   |   | 12.79 |   | 95% KM UPL (t)                              |   |   |   | 11.41  |   |
| 31 | 95% KM Chebyshev UPL  |   |   |   | 22.95 |   | 90% KM Percentile (z)                       |   |   |   | 9.703  |   |
| 32 | 95% KM Percentile (z)   |   |   |   | 11.25 |   | 99% KM Percentile (z)                       |   |   |   | 14.15  |   |
| 33 | 95% KM USL  |   |   |   | 17.21 |   |   |   |   |   |        |   |
| 34 |   |   |   |   |       |   |   |   |   |   |        |   |
| 35 | <b>Nonparametric Uppper Limits for BTVs(no distinction made between detects and nondetects)</b>         |   |   |   |       |   |   |   |   |   |        |   |
| 36 | Order of Statistic, r   |   |   |   | 62    |   | 95% UTL with95% Coverage                    |   |   |   | 18     |   |
| 37 | Approximate f   |   |   |   | 1.632 |   | Confidence Coefficient (CC) achieved by UTL |   |   |   | 0.83   |   |
| 38 | 95% UPL   |   |   |   | 15.68 |   | 95% USL                                     |   |   |   | 20.45  |   |
| 39 | 95% KM Chebyshev UPL  |   |   |   | 22.95 |   |   |   |   |   |        |   |
| 40 |   |   |   |   |       |   |   |   |   |   |        |   |
| 41 | Note: The use of USL to estimate a BTV is recommended only when the data set represents a background    |   |   |   |       |   |   |   |   |   |        |   |
| 42 | data set free of outliers and consists of observations collected from clean unimpacted locations.       |   |   |   |       |   |   |   |   |   |        |   |
| 43 | The use of USL tends to provide a balance between false positives and false negatives provided the data |   |   |   |       |   |   |   |   |   |        |   |
| 44 | represents a background data set and when many onsite observations need to be compared with the BTV.    |   |   |   |       |   |   |   |   |   |        |   |
| 45 |   |   |   |   |       |   |   |   |   |   |        |   |